

858534
SEQUENCE LISTING

<110> THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS
REPRESENTED BY THE
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Nagashima, Makoto
Shiseki, Masayuki
Pedeux, Remy

<120> NEW TUMOR SUPPRESSOR GENE, p28ING5

<130> 4239-64141-02

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<151> 2003-01-23

<150> 60/351,504

<151> 2002-01-23

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<170> PatentIn version 3.5

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Asn	Leu	Pro	Cys	Glu	Leu	Gln	Arg	Asn	Phe	Gln	Leu	Met	Arg	Glu	Leu	
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Glu	Tyr	Ile	Ser	Thr	Val	Lys	Thr	Leu	Ser	Pro	Asp	Gln	Arg	Val	Glu	
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Arg	Leu	Gln	Lys	Ile	Gln	Asn	Ala	Tyr	Ser	Lys	Cys	Lys	Glu	Tyr	Ser	
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Asp	Asp	Lys	Val	Gln	Leu	Ala	Met	Gln	Thr	Tyr	Glu	Met	Val	Asp	Lys	
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cac	att	cga	agg	ctt	gat	gca	gac	ctg	gcg	cgc	ttt	gaa	gca	gat	ctg	335
His	Ile	Arg	Arg	Leu	Asp	Ala	Asp	Leu	Ala	Arg	Phe	Glu	Ala	Asp	Leu	
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Gly	Arg	Arg	Thr	Ser	Glu	Glu	Asp	Thr	Pro	Lys	Lys	Lys	Lys	His	Lys		
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Gly	Gly	Ser	Glu	Phe	Thr	Asp	Thr	Ile	Leu	Ser	Val	His	Pro	Ser	Asp		
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Pro	Ile	Glu	Trp	Phe	His	Phe	Ala	Cys	Val	Asp	Leu	Thr	Thr	Lys	Pro		
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Lys																	
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Tyr Ile Ser Thr Val Lys Thr Leu Ser Pro Asp Gln Arg Val Glu Arg
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Leu Gln Lys Ile Gln Asn Ala Tyr Ser Lys Cys Lys Glu Tyr Ser Asp
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Asp Lys Val Gln Leu Ala Met Gln Thr Tyr Glu Met Val Asp Lys His
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Ile Arg Arg Leu Asp Ala Asp Leu Ala Arg Phe Glu Ala Asp Leu Lys
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Asp Lys Met Glu Gly Ser Asp Phe Glu Ser Ser Gly Gly Arg Gly Leu
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Lys Lys Gly Arg Gly Gln Lys Glu Lys Arg Gly Ser Arg Gly Arg Gly
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Arg Arg Thr Ser Glu Glu Asp Thr Pro Lys Lys Lys His Lys Gly
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Gly Ser Glu Phe Thr Asp Thr Ile Leu Ser Val His Pro Ser Asp Val
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Leu Asp Met Pro Val Asp Pro Asn Glu Pro Thr Tyr Cys Leu Cys His
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Gln Val Ser Tyr Gly Glu Met Ile Gly Cys Asp Asn Pro Asp Cys Pro
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Asn Val Ser Leu Met Arg Glu Ile Asp Ala Lys Tyr Gln Glu Ile Leu
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Lys Glu Leu Asp Glu Cys Tyr Glu Arg Phe Ser Arg Glu Thr Asp Gly
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Ala Gln Lys Arg Arg Met Leu His Cys Val Gln Arg Ala Leu Ile Arg
65 70 75 80

Ser Gln Glu Leu Gly Asp Glu Lys Ile Gln Ile Val Ser Gln Met Val
85 90 95

Glu Leu Val Glu Asn Arg Thr Arg Gln Val Asp Ser His Val Glu Leu
100 105 110

Phe Glu Ala Gln Gln Glu Leu Gly Asp Thr Ala Gly Asn Ser Gly Lys
115 120 125

Ala Gly Ala Asp Arg Pro Lys Gly Glu Ala Ala Ala Gln Ala Asp Lys
130 135 140

Pro Asn Ser Lys Arg Ser Arg Arg Gln Arg Asn Asn Glu Asn Arg Glu
145 150 155 160

Asn Ala Ser Ser Asn His Asp His Asp Asp Gly Ala Ser Gly Thr Pro
165 170 175

Lys Glu Lys Lys Ala Lys Thr Ser Lys Lys Lys Lys Arg Ser Lys Ala
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Lys Ala Glu Arg Glu Ala Ser Pro Ala Asp Leu Pro Ile Asp Pro Asn
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Gly Cys Asp Asn Asp Glu Cys Pro Ile Glu Trp Phe His Phe Ser Cys
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Val Gly Leu Asn His Lys Pro Lys Gly Lys Trp Tyr Cys Pro Lys Cys
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Leu Arg Glu Leu Asp Asn Lys Tyr Gln Glu Thr Leu Lys Glu Ile Asp
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Asp Val Tyr Glu Lys Tyr Lys Lys Glu Asp Asp Leu Asn Gln Lys Lys
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Arg Leu Gln Gln Leu Leu Gln Arg Ala Leu Ile Asn Ser Gln Glu Leu
 85 90 95

Gly Asp Glu Lys Ile Gln Ile Val Thr Gln Met Leu Glu Leu Val Glu
 100 105 110

Asn Arg Ala Arg Gln Met Glu Leu His Ser Gln Cys Phe Gln Asp Pro
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Ala Glu Ser Glu Arg Ala Ser Asp Lys Ala Lys Met Asp Ser Ser Gln
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Pro Glu Arg Ser Ser Arg Arg Pro Arg Arg Gln Arg Thr Ser Glu Ser
 145 150 155 160

Arg Asp Leu Cys His Met Ala Asn Gly Ile Glu Asp Cys Asp Asp Gln
 165 170 175

Pro Pro Lys Glu Lys Lys Ser Lys Ser Ala Lys Lys Lys Lys Arg Ser
 180 185 190

Lys Ala Lys Gln Glu Arg Glu Ala Ser Pro Val Glu Phe Ala Ile Asp
 195 200 205

Pro Asn Glu Pro Thr Tyr Cys Leu Cys Asn Gln Val Ser Tyr Gly Glu
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220

Met Ile Gly Cys Asp Asn Glu Gln Cys Pro Ile Glu Trp Phe His Phe
225 230 235 240

Ser Cys Val Ser Leu Thr Tyr Lys Pro Lys Gly Lys Trp Tyr Cys Pro
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Asn Ala Lys Lys Asn Lys Pro Glu Trp Arg Glu Glu Gln Met Ala Ser
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Ile Lys Lys Asp Tyr Tyr Lys Ala Leu Glu Asp Ala Asp Glu Lys Val
65 70 75 80

Gln Leu Ala Asn Gln Ile Tyr Asp Leu Val Asp Arg His Leu Arg Lys
85 90 95

Leu Asp Gln Glu Leu Ala Lys Phe Lys Met Glu Leu Glu Ala Asp Asn
100 105 110

Ala Gly Ile Thr Glu Ile Leu Glu Arg Arg Ser Leu Glu Leu Asp Thr
115 120 125

Pro Ser Gln Pro Val Asn Asn His His Ala His Ser His Thr Pro Val
130 135 140

Glu Lys Arg Lys Tyr Asn Pro Thr Ser His His Thr Thr Thr Asp His
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His Lys

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Asp Lys Val Gln Leu Ala Met Gln Thr Tyr Glu Met Val Asp Lys His
85 90 95

Ile Arg Arg Leu Asp Thr Asp Leu Ala Arg Phe Glu Ala Asp Leu Lys
100 105 110

Glu Lys Gln Ile Glu Ser Ser Asp Tyr Asp Ser Ser Ser Ser Lys Gly
115 120 125

Lys Lys Lys Gly Arg Thr Gln Lys Glu Lys Lys Ala Ala Arg Ala Arg
130 135 140

Ser Lys Gly Lys Asn Ser Asp Glu Glu Ala Pro Lys Thr Ala Gln Lys
145 150 155 160

Lys Leu Lys Leu Val Arg Thr Ser Pro Glu Tyr Gly Met Pro Ser Val
165 170 175

Thr Phe Gly Ser Val His Pro Ser Asp Val Leu Asp Met Pro Val Asp
180 185 190

Pro Asn Glu Pro Thr Tyr Cys Leu Cys His Gln Val Ser Tyr Gly Glu
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 210 215 220

Ala Cys Val Gly Leu Thr Thr Lys Pro Arg Gly Lys Trp Phe Cys Pro
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Arg Cys Ser Gln Glu Arg Lys Lys Lys
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